

TESTING AND MONITORING PLAN OVERVIEW 40 CFR 146.90

YAMS CO₂ Sequestration Project

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1.0 Facility Information

Facility name: YAMS CO₂ Sequestration Project
YAMS CCS 1 Well

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Well location: [REDACTED], Louisiana

This Testing and Monitoring Plan describes how Oxy Low Carbon Ventures, LLC, will monitor the YAMS CO₂ Sequestration Project site pursuant to 40 CFR 146.90. In addition to demonstrating that the well is operating as planned, the carbon dioxide plume and pressure front are moving as predicted, and that there is no endangerment to USDWs, the monitoring data will be used to validate and adjust the geological models used to predict the distribution of the CO₂ within the storage zone to support AoR reevaluations and a non-endangerment demonstration.

Results of the testing and monitoring activities described below may trigger action according to the Emergency and Remedial Response Plan.

2.0 Overall Strategy and Approach for Testing and Monitoring

The monitoring network is designed to detect unforeseen CO₂ and/or brine leakage out of the injection zone that could endanger the USDW, migrate to a different stratus, or create a risk for the people or environment. The monitoring program is tailored to track the migration of the CO₂ plume and development of the pressure front to validate the simulation models and to be able to delineate the AoR effectively. There are several components that are integrated into the master plan for monitoring, which are classified in the following categories:

1. Carbon Dioxide Stream Analysis
2. Continuous Recording of Operational Parameters
3. Corrosion Monitoring and Leak Detection

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4. Above Confining Zone Monitoring
5. External Mechanical Integrity Testing
6. Pressure Fall-Off Testing
7. Carbon Dioxide Plume and Pressure Front Tracking

The tools and techniques proposed to monitor the surface and downhole operating conditions of the wells along with the quality of the CO₂ being injected are included in the project Testing and Monitoring Plan document of the permit.